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## KOREAN PATENT ABSTRACTS

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(71) Applicant: HANLAB CORPORATION  
RYU, HEUI GEUN

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(72) Inventor: RYU, HEUI GEUN  
KIM, DO GYOOON

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(54) AUTOMATIC BALANCING ROTOR FOR CENTRIFUGAL MACHINE TO EQUALLY MAINTAIN CENTRIFUGAL FORCE APPLIED TO TEST SAMPLE BY EQUALLY MAINTAINING ROTATION RADIUS OF ROTOR ARMS

## (57) Abstract:

**PURPOSE:** An automatic balancing rotor for centrifugal machine is provided to equally maintain the centrifugal force applied to each test sample by equally maintaining the rotation radius of rotor arm, and reduce the relative influence of back lash for giving automatic balance operation by revising balance weights as horizontally transferring balance weights.

**CONSTITUTION:** The automatic balancing rotor for centrifugal machine comprises a plurality of rotation arms, a plurality of balance weights(15), and a balance weight transferring section. The rotation arms are placed at same radius based on a rotation axis of a centrifugal machine with equal angles respectively, and formed to support a bucket (31) receiving a test sample. The balance weights(15) are installed to move the direction of each rotation arms radius, and formed to revise the unbalance of centrifugal force of the bucket during centrifugal process. The balance weight transferring section is formed to horizontally transfer each balance weight(15) to the direction of the each rotation arms radius.

